

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STAPES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/673,617	01/25/2001	Kim Sorensen	030307/0191	2002
	7590 01/11/2007 LARDNER LLP	EXAMINER		
SUITE 500 3000 K STREET NW			BURKHART, MICHAEL D	
WASHINGTO			ART UNIT	PAPER NUMBER
			1633	
			·	
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MO	NTHS	01/11/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Applicati	on No.	Applicant(s)				
Office Action Summary		09/673,6	17	SORENSEN ET A	AL.			
		Examine	r	Art Unit				
		Michael D). Burkhart	1633				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
WHICHEVER IS - Extensions of time ma after SIX (6) MONTH: - If NO period for reply - Failure to reply within Any reply received by	STATUTORY PERIOD FOR LONGER, FROM THE MAIL by be available under the provisions of 3 from the mailing date of this communic is specified above, the maximum statute the set or extended period for reply will, the Office later than three months after this type of the set of the	ING DATE OF THE TOTAL TO	HIS COMMUNIO vent, however, may a re vill expire SIX (6) MON polication to become Al	CATION. reply be timely filed ITHS from the mailing date of this c BANDONED (35 U.S.C. § 133).				
Status		•						
•	e to communication(s) filed o	•		<u>2006</u> .				
,	This action is FINAL . 2b) This action is non-final.							
,	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
	·	ander Ex parte di	24,70, 1000 O.L	7. 11, 100 0.0. 2.10.				
Disposition of Claims								
· - · · -	<u>3-53 and 55-70</u> is/are pendin	-						
•	4a) Of the above claim(s) is/are withdrawn from consideration.							
·= · · · -	5) Claim(s) <u>43,44,46-49,51-53,56,58,59,61,63,64,66,68 and 69</u> is/are allowed.							
	5, 50, 57, 60, 62, 65, 67 and	<u>70</u> is/are rejected	•					
	is/are objected to.are subject to restriction	n and/or election i	requirement		•			
	are subject to restrictio	ii and/or election i	equirement.		·			
Application Papers								
9)☐ The specific	cation is objected to by the E	xaminer.						
•	g(s) filed on is/are: a	•	•	-	•			
	ay not request that any objectio							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
11) I The oath or	declaration is objected to by	y tne ⊏xaminer. N	ote the attached	a Office Action of form P	10-152.			
Priority under 35 U.	S.C. § 119							
.12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:								
1. Certified copies of the priority documents have been received.								
2. Certified copies of the priority documents have been received in Application No								
3. Copies of the certified copies of the priority documents have been received in this National Stage								
application from the International Bureau (PCT Rule 17.2(a)).								
* See the attached detailed Office action for a list of the certified copies not received.								
·					•			
Attachment(s)								
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date								
3) Information Disclosure Statement(s) (PTO/SB/08) 5) Notice of Informal Patent Application								
Paper No(s)/Mail Date 6) U Other:								

Application/Control Number: 09/673,617

Art Unit: 1633

DETAILED ACTION

Receipt of the responses dated 7/21/206 and 10/26/2006 is acknowledged. After entry of the 10/26/2006 amendment, claims 43-53, 55-70 are pending and under examination.

Claim Objections

Claim 55 is objected to because of the following informalities: "auxothropic" in line 3 should be "auxotrophic". Appropriate correction is required.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 50, 60, 65, and 70 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 50 recites a vector that, in line 7, lacks a gene for antibiotic resistance, but also comprises a gene for nisin (an antibiotic) resistance (line 8). It is unclear how the claimed vector can have both properties, therefore the metes and bounds of the claimed subject matter are unclear. This rejection affects all dependent claims.

Response to Arguments

Applicant's arguments filed 7/21/2006 have been fully considered but they are not persuasive. Applicants assert that nisin is a bacteriocin, not an antibiotic, hence the claims are not indefinite. However, absent evidence to the contrary, a bacteriocin is an antibiotic, i.e. "An

Application/Control Number: 09/673,617

Art Unit: 1633

antibiotic produced by bacteria" (Source: *Merriam-Webster's Medical Dictionary*. Merriam-Webster, Inc., 2002). Therefore, the claims remain indefinite.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 45, 57, 62 and 67 are rejected under 35 U.S.C. 102(b) as being anticipated by Dickely et al (Mol. Micro., 1995). This rejection is maintained for reasons of record (as applied to claims 1-4, 7, 9-14, 16, 17, 22-25, 28-29, 31-33, 36-38, 40 and 42 in the Office Actions of 6/30/2004 and 7/13/2005) and for reasons set forth below.

Regarding new claims 57, 62, and 67, Dickely et al teach in the course of producing the pFG1 vector, bacterial transformants (i.e. the lactic acid bacterium DN209) containing the vector were isolated by plating and culturing (page 843, first column and page 845, first column).

Absent a definition in the specification a carrier is considered to be any media component, i.e. agar or liquid media.

Response to Arguments

Applicant's arguments filed 7/21/2006 have been fully considered but they are not persuasive. Applicants assert that the instant claims now encompass the subject mater of canceled claim 8, not previously rejected over Dickely et al. This is not convincing, because the

Application/Control Number: 09/673,617

Art Unit: 1633

instant claims merely recite a product (an amber (CUA) suppressor tRNA) by process, i.e. a CUA suppressor tRNA that arises in a host cell by mutation of two or three changes of nucleotide in the anticodon region of a tRNA gene. See MPEP §2113:

"Product-by-process claims are not limited to the manipulations of the recited steps, only the structure implied by the steps."

The fact remains that the end product must be an amber suppressor, i.e. it must have a CUA codon (see page 839, second column, first full ¶ of Dickely et al). This is not even a process the skilled artisan can perform, but is rather a function of the host cell itself. Therefore, because Dickely teaches an amber suppressor tRNA, along with the remaining claim limitations, the claims are anticipated by Dickely et al regardless of how the amber suppressor tRNA taught by Dickely was produced by the host cell.

Conclusion

Claims 43-44, 46-49, 51-53, 56, 58, 59, 61, 63, 64, 66, 68, and 69 are allowed.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period

Art Unit: 1633

will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael D. Burkhart whose telephone number is (571) 272-2915. The examiner can normally be reached on M-F 8AM-5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Woitach can be reached on (571) 272-0739. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Michael D. Burkhart Examiner Art Unit 1633

SCOTT D. PRIEBE, PH.D PRIMARY EXAMINER

Sold D. Priche